

LEMCO

STEEL CASEMENTS

CUSTOM BUILT
STANDARD SIZES
PROJECTED TYPE
CASEMENT DOORS

LUNDELL-ECKBERG MANUFACTURING CO., INC.
JAMESTOWN, NEW YORK

LEMCO REPRESENTATIVES

ALBANY, N. Y.

FRED G. SCHILLING, JR.
99 North Allen Street

ATLANTA, GA.

STEEL SPECIALTIES COMPANY
606 Walton Building

BALTIMORE, MD.

CONSOLIDATED SUPPLY COMPANY
10 West Chase Street

BUFFALO, N. Y.

JAMES M. HAWKINS COMPANY, INC.
885-887 Ellicott Square
Telephone, Seneca 7830

CHICAGO, ILL.

W. L. VAN DAME COMPANY
Room 408, 820 Tower Court
Telephone, Superior 3244

CINCINNATI, OHIO

DURBROW & OTTE
206 West Court Street

COLUMBUS, OHIO

ALVAN TALLMADGE
63 Parkwood Avenue
Telephone, FR 5487

DALLAS, TEX.

METAL PRODUCTS COMPANY
406 Linz Building
Telephone, 2-8719

WICHITA, KAN.

LUSCO BRICK & STONE COMPANY

LITTLE ROCK, ARK.

CHAS. S. WATT'S
700 Pyramid Life Building
P. O. Box 92

LOS ANGELES, CALIF.

ASSOCIATED MATERIALS COMPANY
707 East 61st Street
Telephone, Axridge 9078

MIAMI, FLA.

J. K. BRANDT
408 City National Bank Building

MINNEAPOLIS, MINN.

HAUENSTEIN & BURMEISTER
614 Third Avenue, South

NEW YORK, N. Y.

A. F. NAGLE COMPANY, INC.
10 East 43rd Street
Telephone, Vanderbilt 1120

PITTSBURGH, PA.

HARRY H. FRANK
207 Fulton Building
Telephone, Atlantic 9730

Some Lemco Installations and the Architects

Banks, Commercial and Public Buildings

River Forest State Bank, River Forest, Ill., Schmeitler & Wenisch
Title Insurance and Trust Bldg., Los Angeles, Cal., John & Donald Parkinson
Laramie State Bank, Chicago, Ill., Meyer & Cook
Hyde Park National Bank, Chicago, Ill., K. M. Vitzthum & Co.
Baltimore Trust Co. Bldg., Baltimore, Md., Taylor & Fisher; Smith & May
Suffolk Title Guarantee & Trust Co., Jamaica, N. Y., Dennison & Hirons
Detroit Savings Branch Bank and Office, Detroit, Mich., C. L. Phelps
State Savings Bank Bldg., St. Paul, Minn., Toltz, King & Day
West Town State Bank Bldg., Chicago, Ill., Mundie & Jensen
Worthen Bank, Little Rock, Ark., Mann, Wanger & King
Butler Savings & Trust Co., Butler, Pa., Mowbray & Uffinger
People's State Bank, Detroit, Mich., Hans Gehrke
Franklin Savings & Trust Co., Pittsburgh, Pa., Thomas Pringle
Chicago Daily News Bldg., Chicago, Ill., Holabird & Root
Jewel Tea Company Bldg., Barrington, Ill., Holabird & Root
Internal Revenue Bldg., Washington, D. C., J. A. Wetmore
Wall & Hanover Bldg., New York, N. Y., Delano & Aldrich
Rockland State Hospital, Orangeburg, N. Y., New York State Architect
One La Salle Street Bldg., Chicago, Ill., K. M. Vitzthum & Co.
St. Joseph's Sanatorium, Albuquerque, N. M., George Williamson, Inc.
Central Fire and Police Station, Columbus, Ohio, Allied Architects

Churches

Immanuel Baptist Church, Little Rock, Ark., Mann & Stern
St. Benedict's Parish Bldg., Detroit, Mich., Donaldson & Meier
Synagogue for Congregation Rodeph Shalom, New York, N. Y., Charles B. Meyers
St. Joseph's Cathedral Rectory, Buffalo, N. Y., Mortimer J. Murphy
Hendricks Memorial Chapel (Syracuse University), Syracuse, N. Y., John Russell Pope and Dwight James Baum, Associate Architects
St. Catherine's Parish, Detroit, Mich., Donaldson & Meier
Northminster Presbyterian Church, Evanston, Ill., Mundie & Jensen
Episcopal Church School, Middletown, Del., Arthur H. Brockie
Wilmette Parish M. E. Church, Wilmette, Ill., Granger & Bollenbacher
Second Presbyterian Church Addition, Wilkinsburg, Pa., Lawrence Wolfe
St. Joseph's Church, Owatonna, Minn., Slifer & Abrahamson
Ida F. Stiles Memorial Church, Jackson, Mich., Thielbar & Fugard
St. George's Monastery, Cincinnati, Ohio, Crowe & Schulte
St. Boniface Parish, Philadelphia, Pa., Frank R. Watson
Holy Trinity Parish, Erie, Pa., Fuller & Stickle
Holy Trinity Parish, Cleveland, Ohio, J. M. Miller
St. Stephen's Church, Philadelphia, Pa., Wetherill P. Trout
Presbyterian Church, Tacoma, Wash., Sutton, Whitney & Dugan
M. E. Church, Lincoln, Ill., Deal & Ginzel
Spiritual Science Church, Jamestown, N. Y., Oliver R. Johnson

Residences

Bernard Residence, Pasadena, Cal., Morgan, Walls & Clements
Hess Residence, Wheeling, W. Va., Sidney F. Heckert
Franklin Baker Residence, Newton Township, Delaware County, Pa., Carl A. Ziegler
Wilson Residence, Rochester, N. Y., Smith, Hinchman & Grylls
Henry A. Page Residence, Toledo, Ohio, Mills, Rhines, Bellman & Nordhoff
Wm. Chamberlain Residence, Winnetka, Ill., S. S. Beman
Bryant Residence, Detroit, Mich., Smith, Hinchman & Grylls
Edwin Merrill Residence, Bedford Hills, N. Y., Frank E. Newman
Henry P. Williams Residence, Grosse Point, Mich., Hugh T. Keyes
George B. Everitt Residence, Winnetka, Ill., S. S. Beman
George R. Elder, Jr., Residence, Greenwich, Conn., Edgar A. Self
Kayser Residence, Minneapolis, Minn., Carl A. Gage
William F. Raskob Residence, Wilmington, Del., E. William Martin
M. R. Burrowes Residence, Farmington, Mich., M. R. Burrowes
Field Residence, Jackson, Mich., L. H. Field
S. F. Abraham, Detroit, Mich., Abraham & Wood
Dr. Hall, Detroit, Mich., W. C. Morris
W. H. McGarr, Birmingham, Mich., Hugh T. Keyes
Frank R. Watson, Philadelphia, Pa., F. R. Watson
Henry Rigg's Residence, Ann Arbor, Mich., Chas. J. Sullivan

Foreword

WE specialize in high grade steel casements of any design or size. Our casements and doors may be divided into two general groups.

STRICTLY CUSTOM BUILT CASEMENTS AND DOORS

These are made of No. 200 heavy three-point section and No. 600 heavy two-point section. They may be of any shape or size.

STANDARDIZED STEEL CASEMENTS AND DOORS

Casements and doors are made of our No. 600 heavy two-point section in standard sizes and are kept in stock at all times for immediate shipment.



LEMCO QUALITY

Our casements are produced to conform to a high standard of both workmanship and material. The sections, which are unusually heavy, are made from hot rolled steel bars and are carefully straightened. The corners are accurately mitered and electrically welded together, making strong and neatly finished casements.

They are made by expert mechanics and all work is subjected to rigid inspection for precision of contact parts and assembly. The hardware, including hinges and fasteners, is made of bronze and not of malleable iron.

LEMCO HARDWARE

All hardware is solid bronze, even for the most inexpensive sash, and is made in our

own foundry. Plates 1H-1, 1H-2 and 1H-3 show the designs of the various parts.

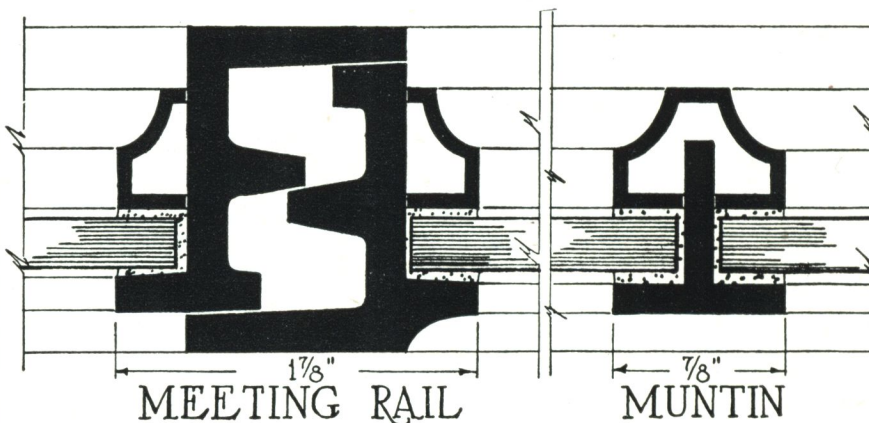
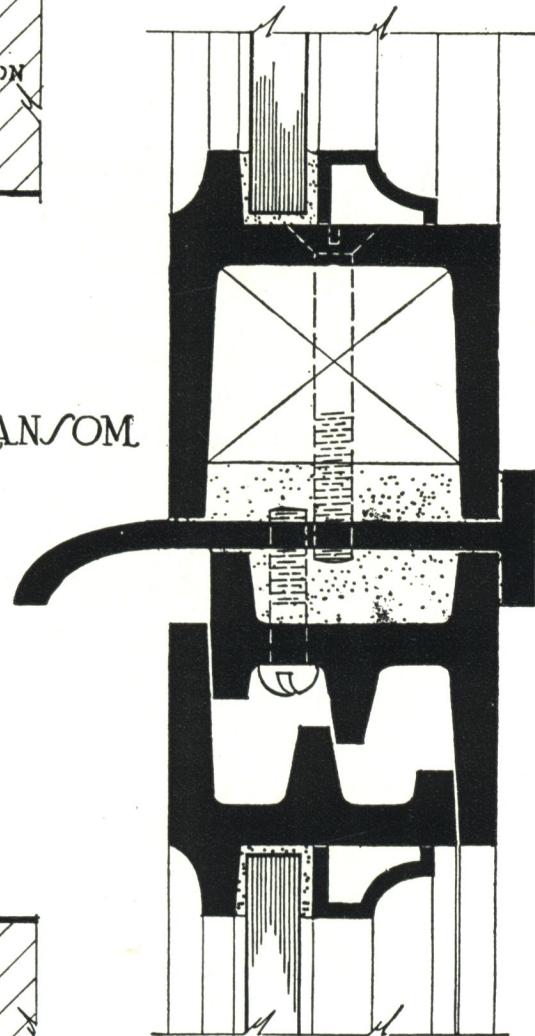
Our patented safety cleaning friction hinge allows the outside of the glass to be cleaned from the room side and the friction feature does away with the use of a sill adjuster. The friction hinge is easily operated, yet it will hold the sash in any desired position.

LEMCO FINISH

All steel is thoroughly cleaned and brushed before painting. All custom built jobs receive one coat of rust resisting paint and one coat of gray enamel, each coat baked on separately; standardized casements receive only one coat of gray enamel. However, painting specifications may vary to meet conditions or architect's specifications.

Technical drawing of a window frame cross-section. The drawing shows the frame profile with various dimensions and labels. Key components and dimensions include:

- HEAD**: The top part of the frame.
- JAMB SIMILAR**: The side part of the frame.
- TRAN.**: The transom, the horizontal bar across the window.
- SILL**: The bottom part of the frame.
- OPENING SIZE**: The overall height of the window opening.
- SASH SIZE**: The height of the sash (the movable part of the window).
- DOTTED LINE SHOWS JAMB CONDITION**: A note indicating the condition of the jamb.
- Dimensions**:
 - Top head thickness: $3\frac{1}{16}$ "
 - Head depth: $1\frac{7}{16}$ "
 - Transom thickness: $3\frac{3}{8}$ "
 - Transom depth: $1\frac{7}{16}$ "
 - Sill thickness: $1\frac{1}{16}$ "
 - Sill depth: $3\frac{3}{8}$ "

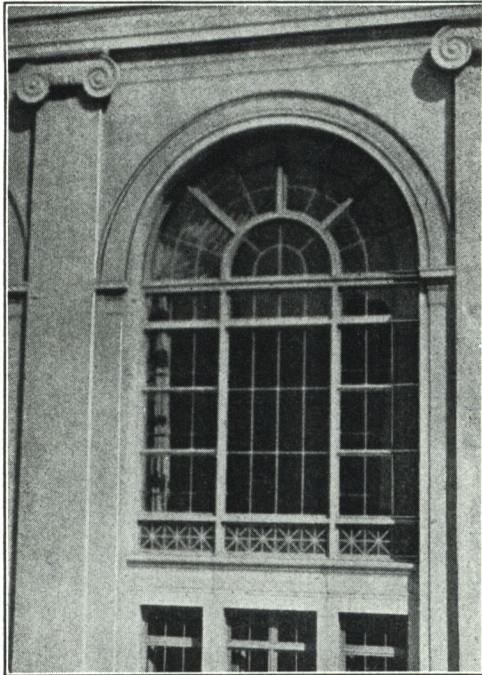


CLEARANCE FOR SET-
TING SHOULD BE IN-
CREASED TO $\frac{1}{8}$ " FOR
MASONRY & CAST IRON.

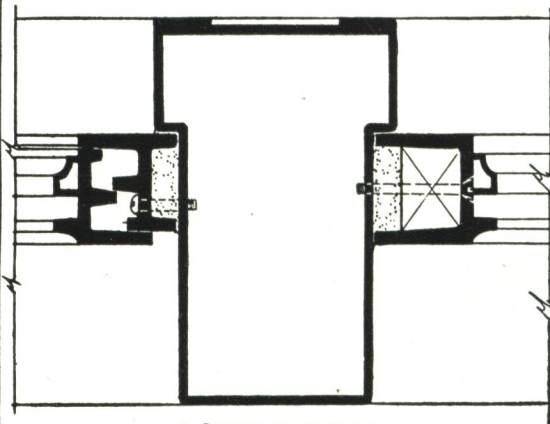
**PLATE
NO. 1A-1**

SCALE-FULL SIZE

LEMCO THREE POINT SECTION SASH OPENING OUT SET TO LEMCO SUBFRAMES

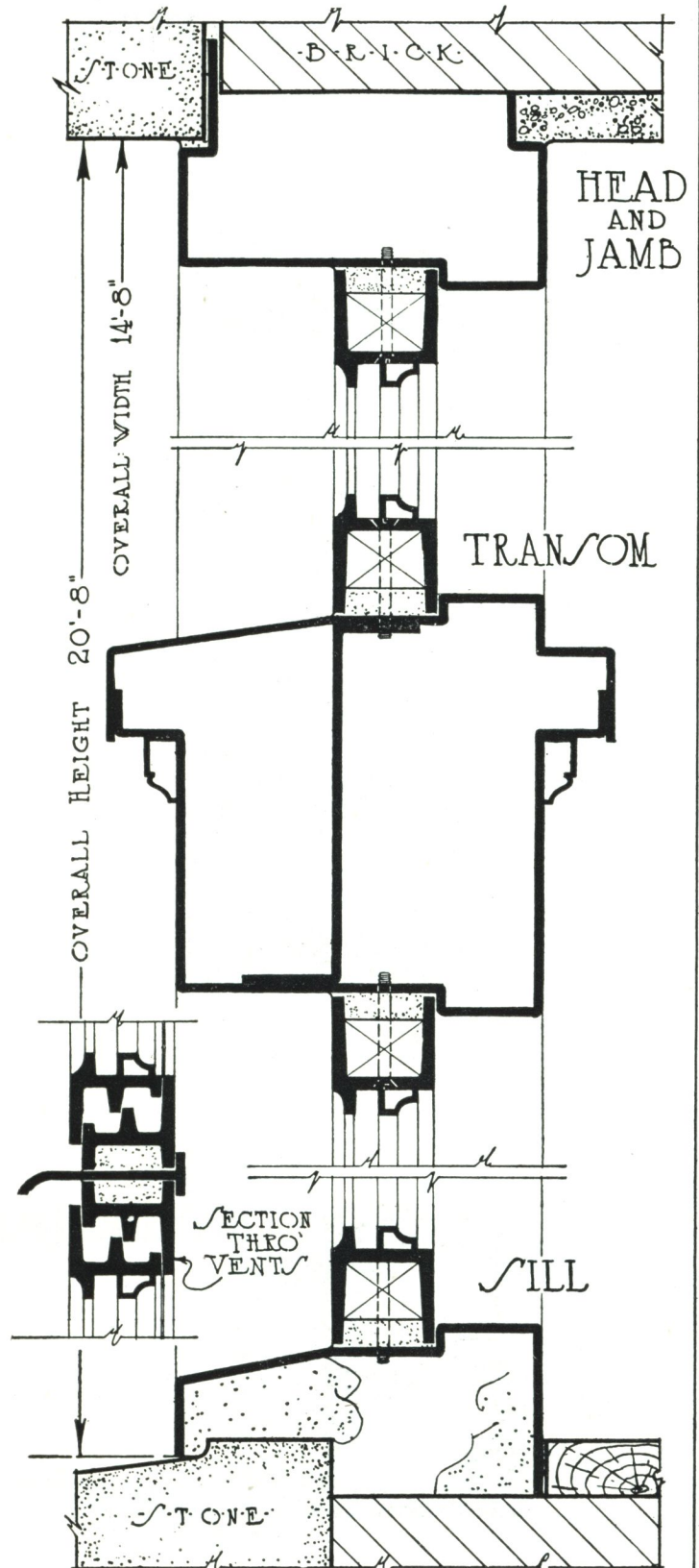


SUBFRAMES CONSTRUCTED OF
No. TWELVE GAUGE STEEL.
VENTILATORS ARE HINGED AT TOP
AND ARE CONTROLLED BY ROD
GEARING.



MULLION

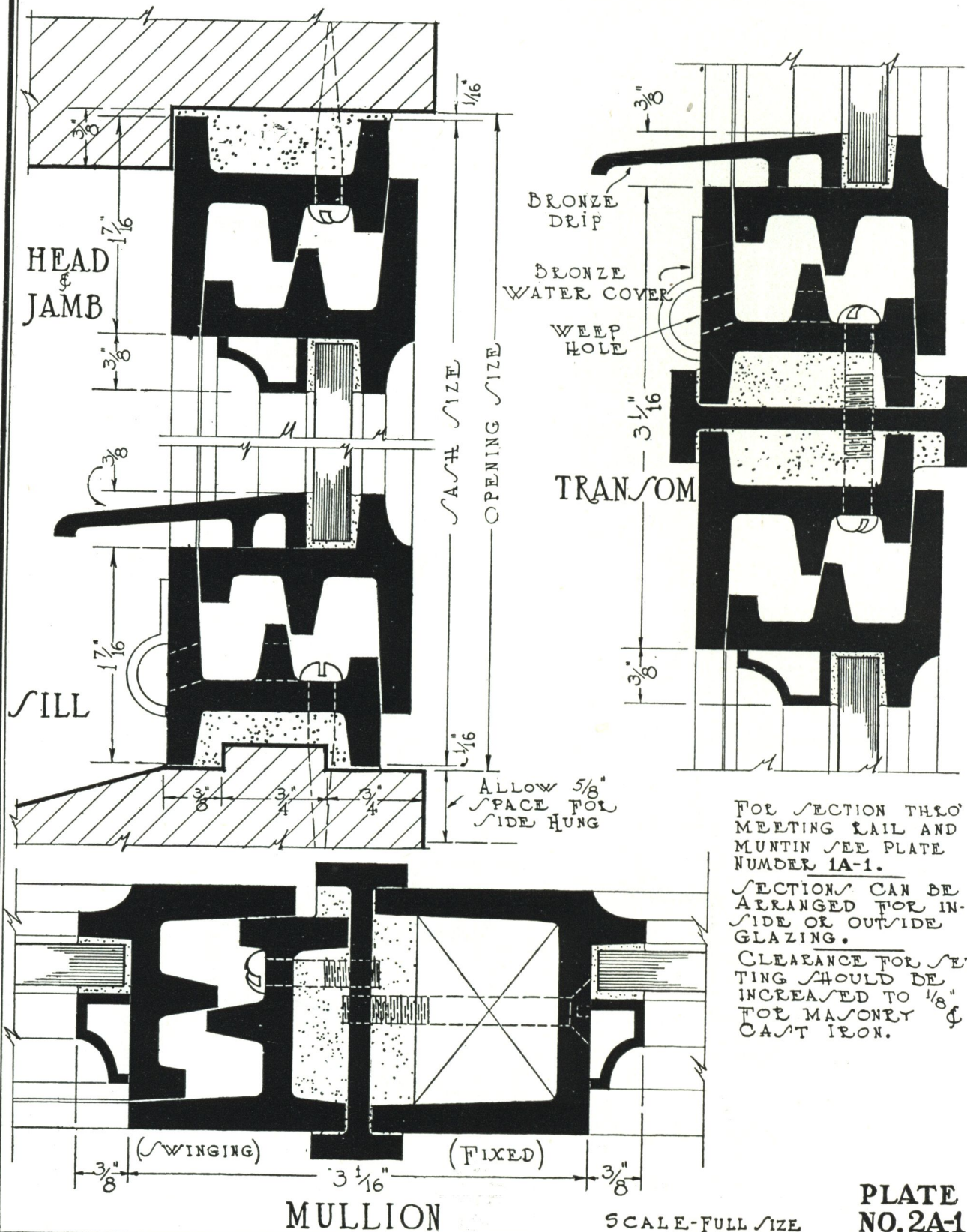
SCALE DETAIL
DAY RIDGE SAVING BANK
BROOKLYN, NEW YORK
HALSEY, MC CORMACK & HELMER
ARCHITECTS



SCALE 0 1/2 1 2 3 4

PLATE
NO. 1A-2

NO. 200 LEMCO HEAVY THREE POINT SECTION CASEMENT OPENING INWARD

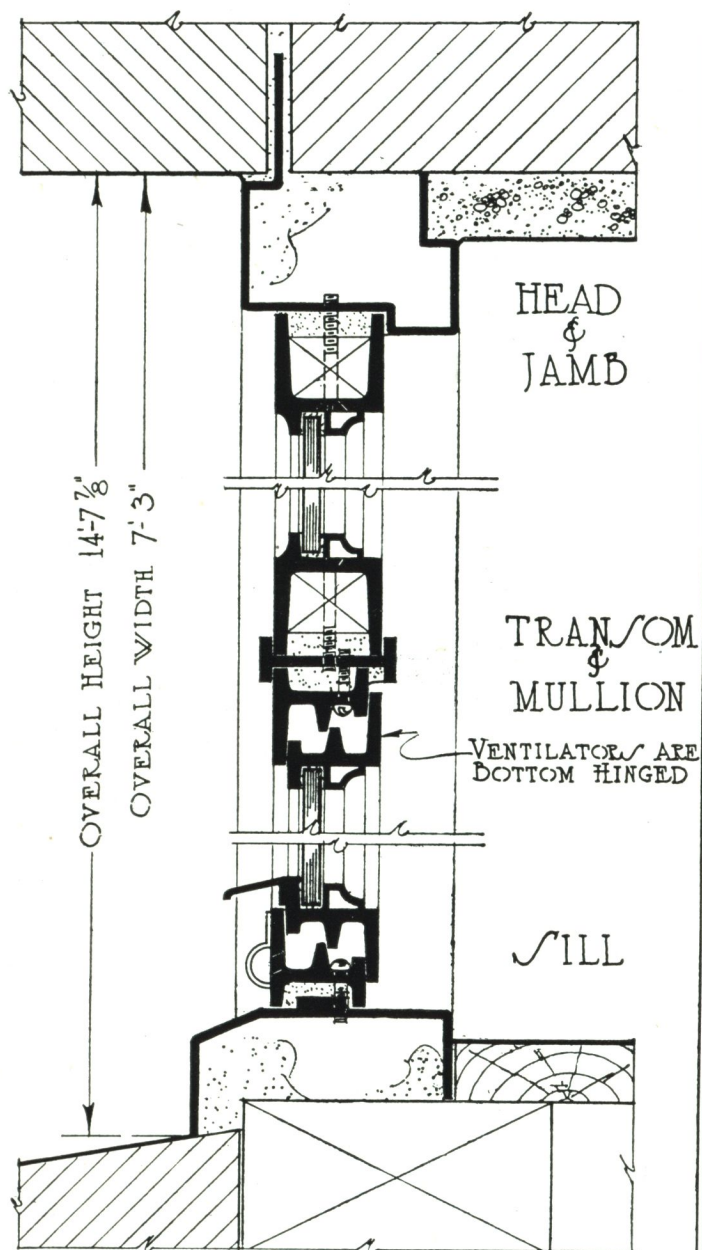
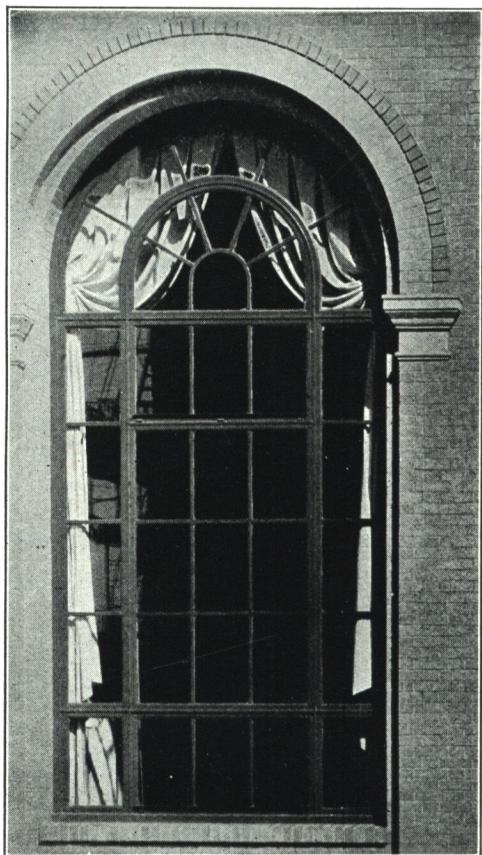


FOR SECTION TWO MEETING RAIL AND MUNTIN SEE PLATE NUMBER 1A-1.

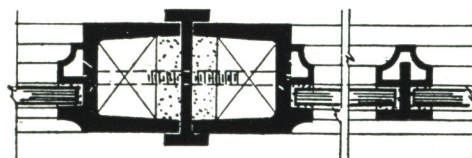
SECTIONS CAN BE ARRANGED FOR INSIDE OR OUTSIDE GLAZING.

CLEARANCE FOR SETTING SHOULD BE INCREASED TO 1/8" FOR MASONRY & CAST IRON.

LEMCO THREE POINT SECTION SASH OPENING IN SET TO LEMCO SUBFRAMES



SUBFRAMES CONSTRUCTED OF
No TWELVE GAUGE STEEL.
UPPER VENTILATORS OPERATED
FROM FLOOR WITH CORDS.
BRONZE CORD CLEAT PLACED
ON MULLION A CONVENIENT
DISTANCE FROM FLOOR.
LOWER VENTILATORS OPERATED
WITH BRONZE SPRING CATCH AND
BRONZE FOLDING SIDE ARMS.



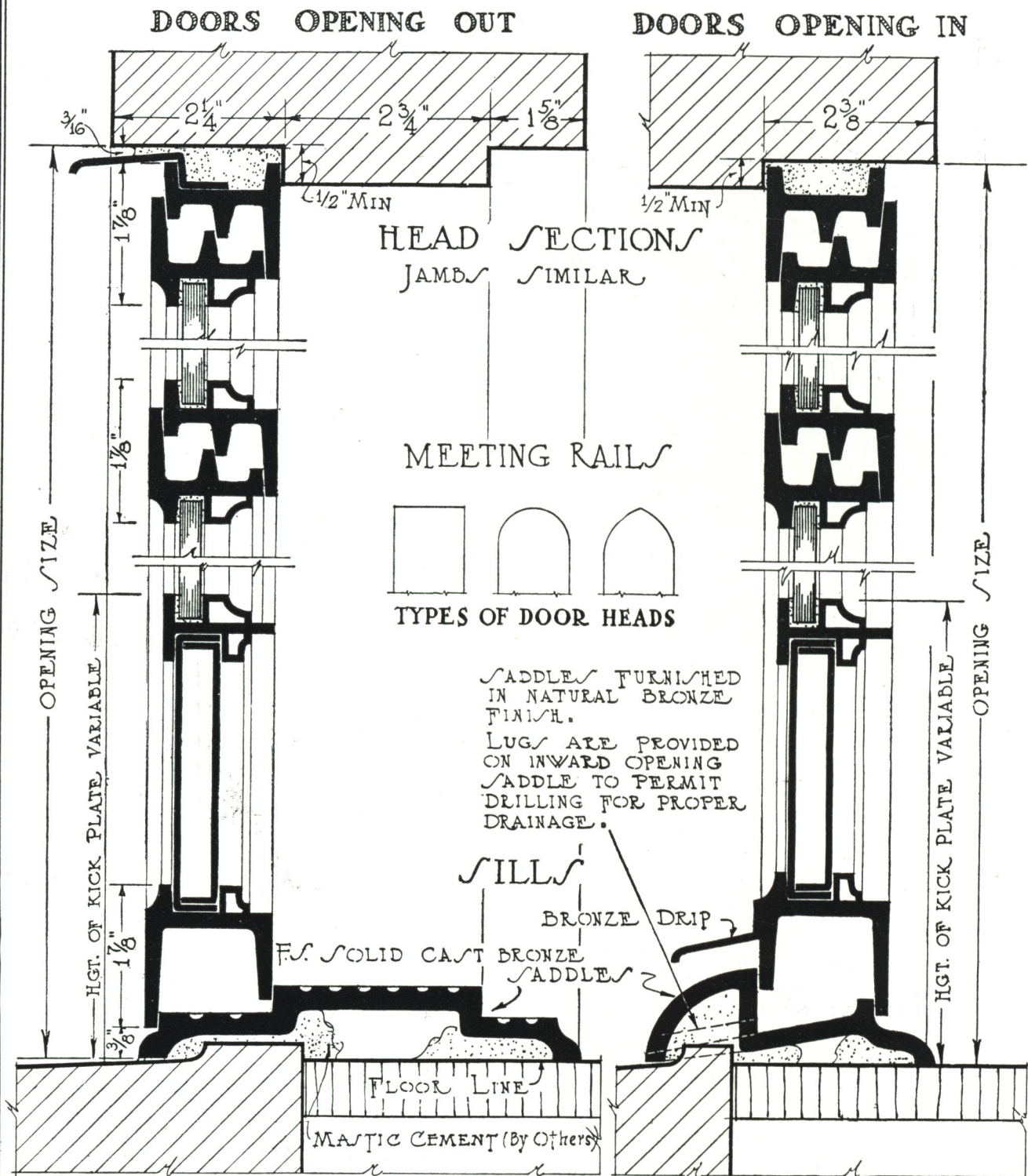
SCALE DETAILS
WOODCLIFF TRUST COMPANY
NORTH BERGEN, NEW JERSEY
WALTER L UHL ~ ARCHITECT

MULLION MUNTIN

PLATE
NO. 2A-2

LEMCO DOUBLE FOLDING DOORS

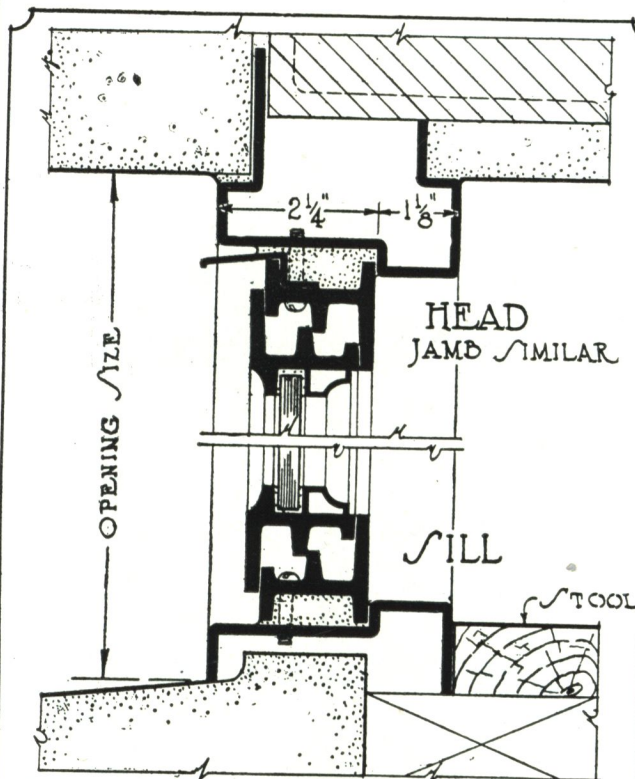
HEAVY THREE POINT SECTION — SEE PLATE NO. 1A-1



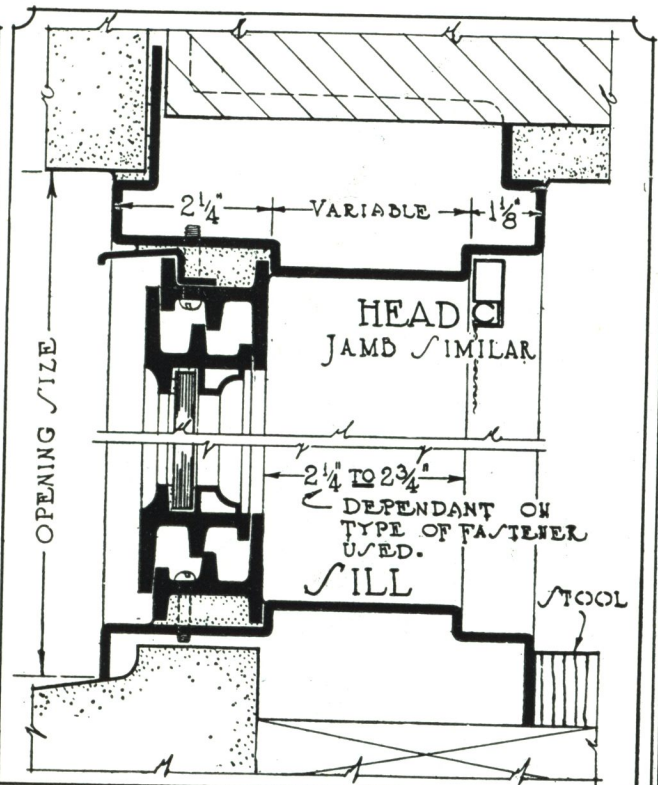
NOTE ~ OUTWARD OPENING DOOR SHOWN WITH DOUBLE RABBETTED SADDLE AND INWARD OPENING DOOR SHOWN WITH SINGLE RABBETTED SADDLE. EITHER TYPE OF SADDLE CAN BE FURNISHED FOR BOTH OUTWARD AND INWARD OPENING DOORS. SCALE ~ ONE-HALF FULL SIZE

PLATE NO. 3A-1

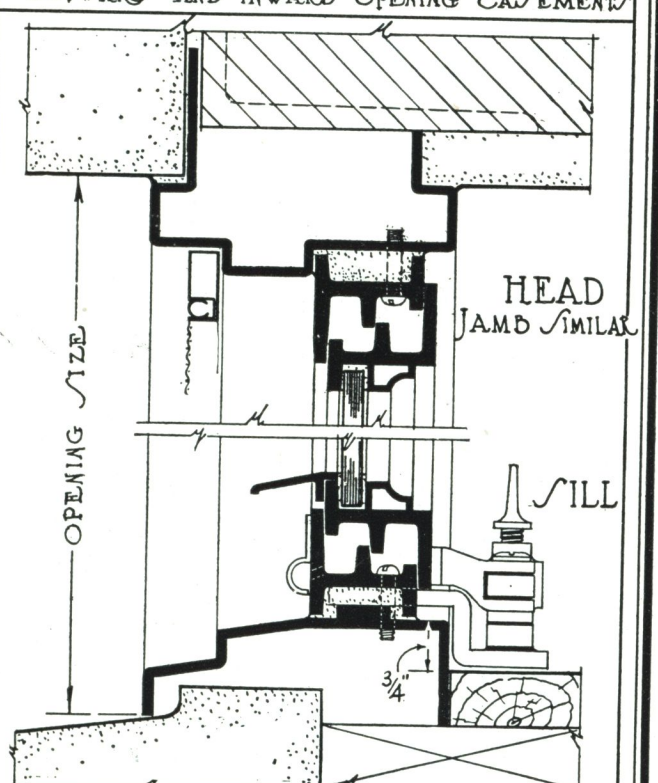
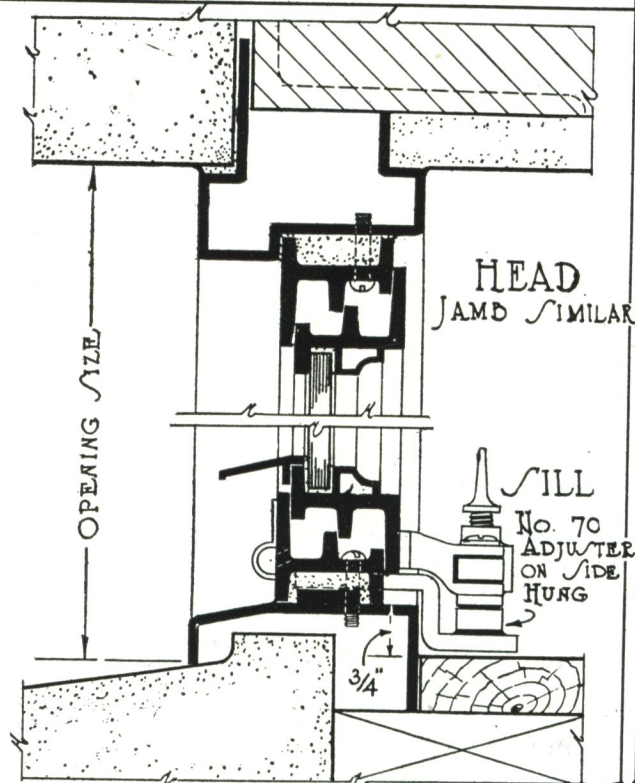
LEMCO BULTIN SUBFRAMES APPLICATION DETAILS



SINGLE RABBETTED SUBFRAME
OUTWARD AND INWARD OPENING CASEMENTS



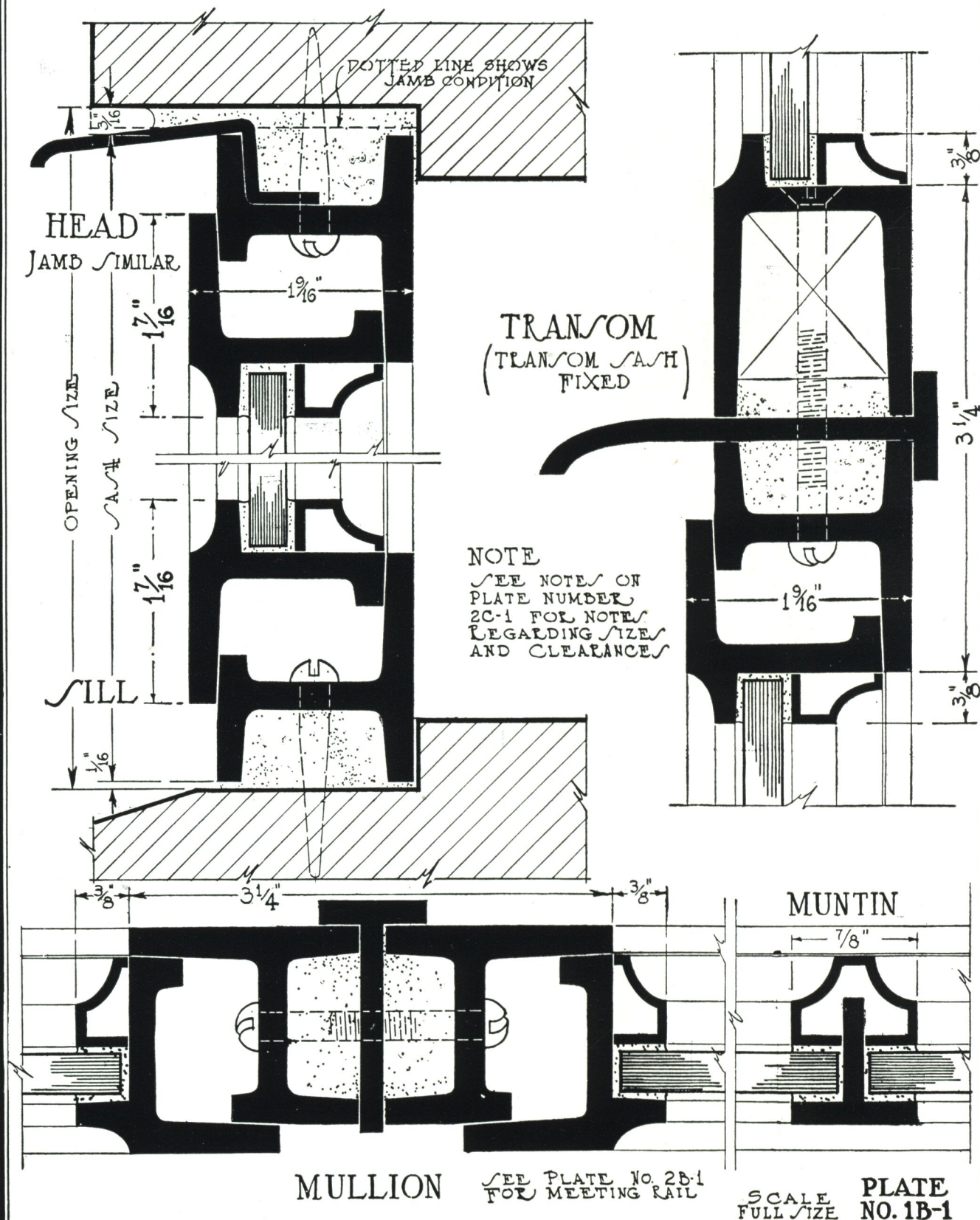
DOUBLE RABBETTED SUBFRAME
OUTWARD AND INWARD OPENING CASEMENTS



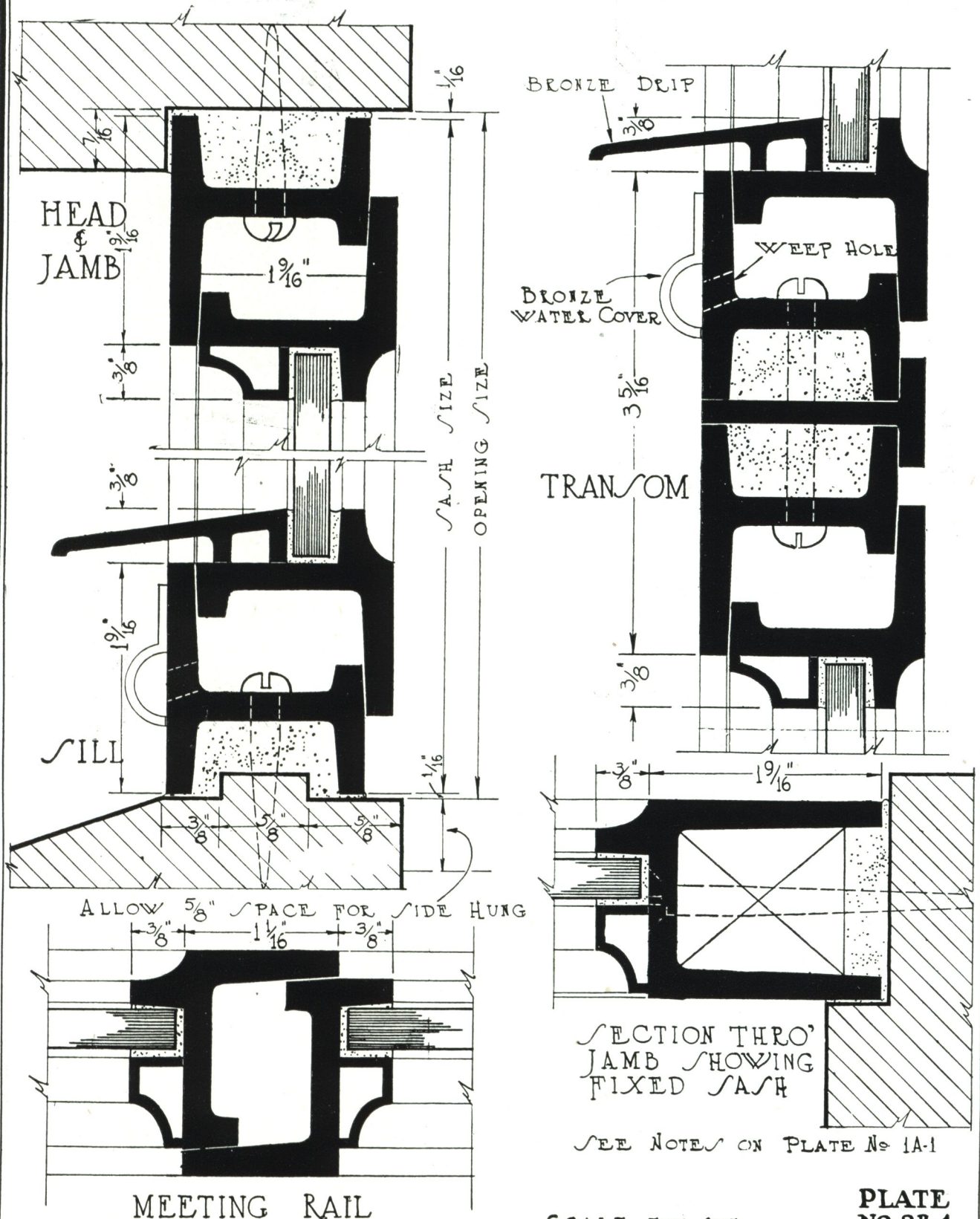
SUBFRAME ARE BUILT INTO MASONRY BY MASON CONTRACTOR. CASEMENTS ARE SET AFTER ALL ROUGH TRADES HAVE BEEN COMPLETED. ALL FRAMES ARE RIGIDLY CONSTRUCTED OF NO. 12 GAUGE STEEL, MADE TO ARCHT'S DETAILS.

PLATE
NO. 4A-1

NO. 600 LEMCO HEAVY TWO POINT SECTION CASEMENT OPENING OUTWARD

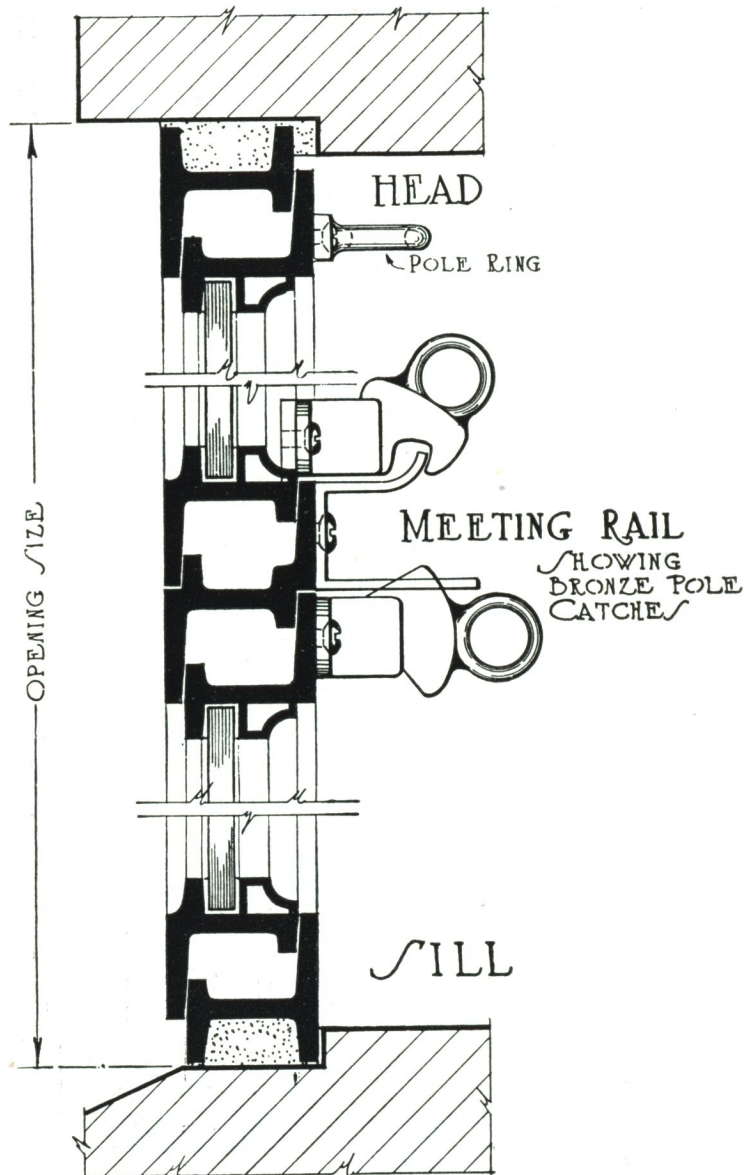


NO. 600 LEMCO HEAVY TWO POINT SECTION CASEMENT OPENING INWARD

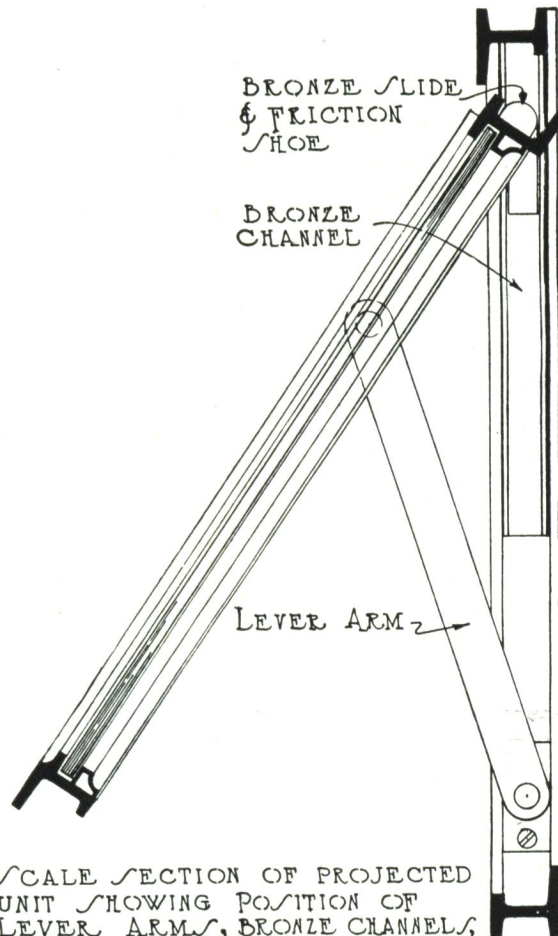
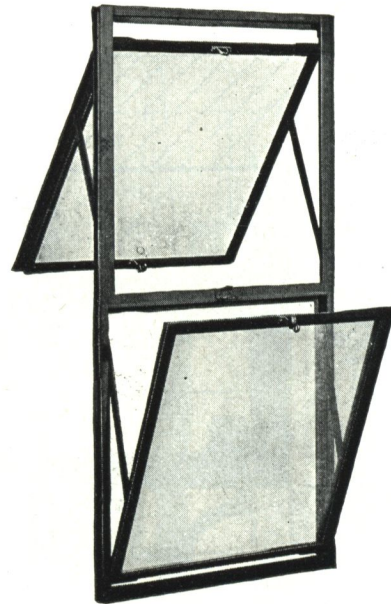
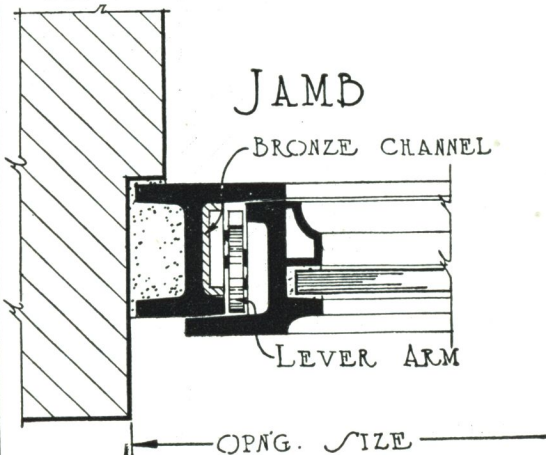


LEMCO PROJECTED TYPE SASH

HEAVY TWO POINT SECTION—SEE PLATE NO. 1B-1



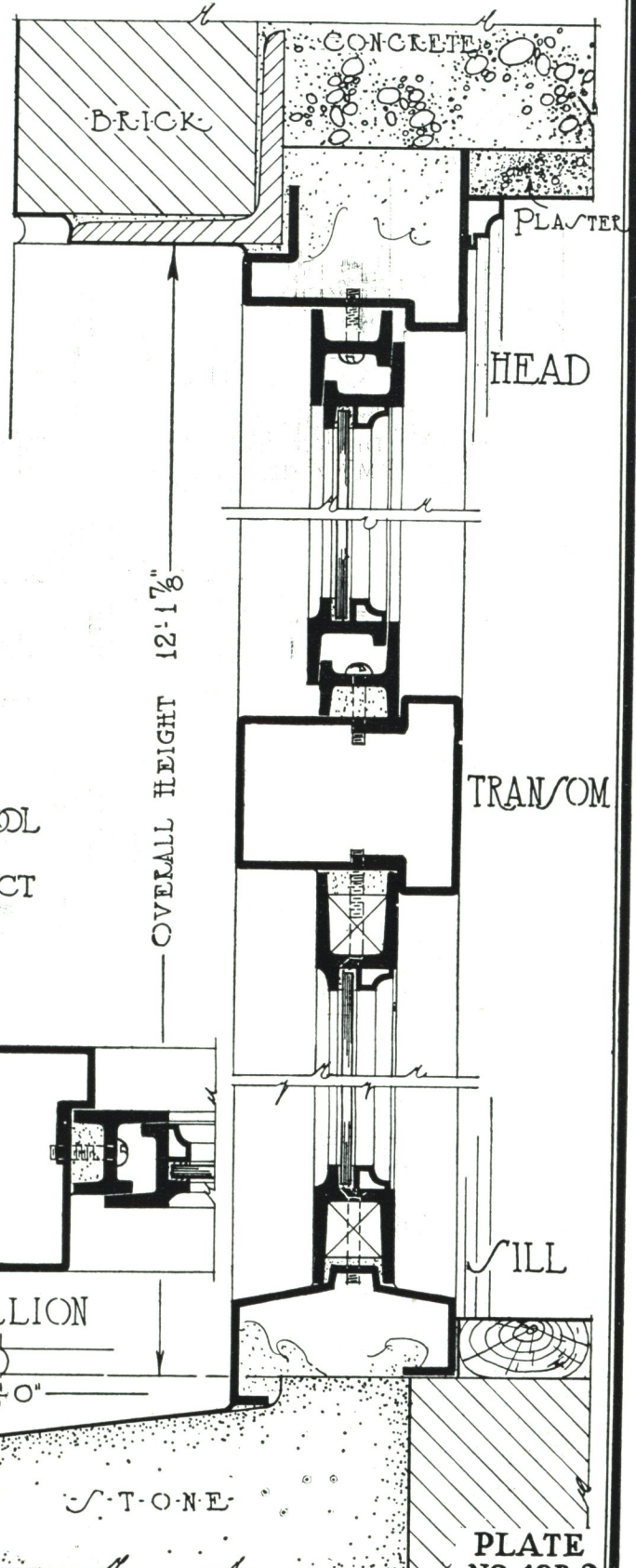
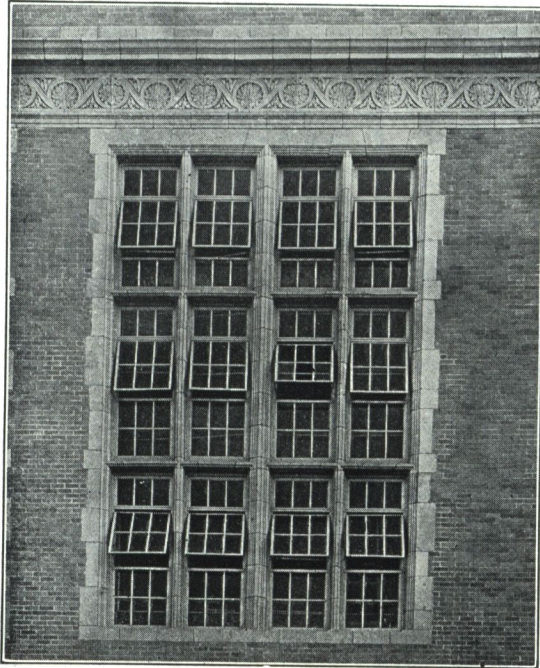
DETAILS—ONE HALF FULL SIZE



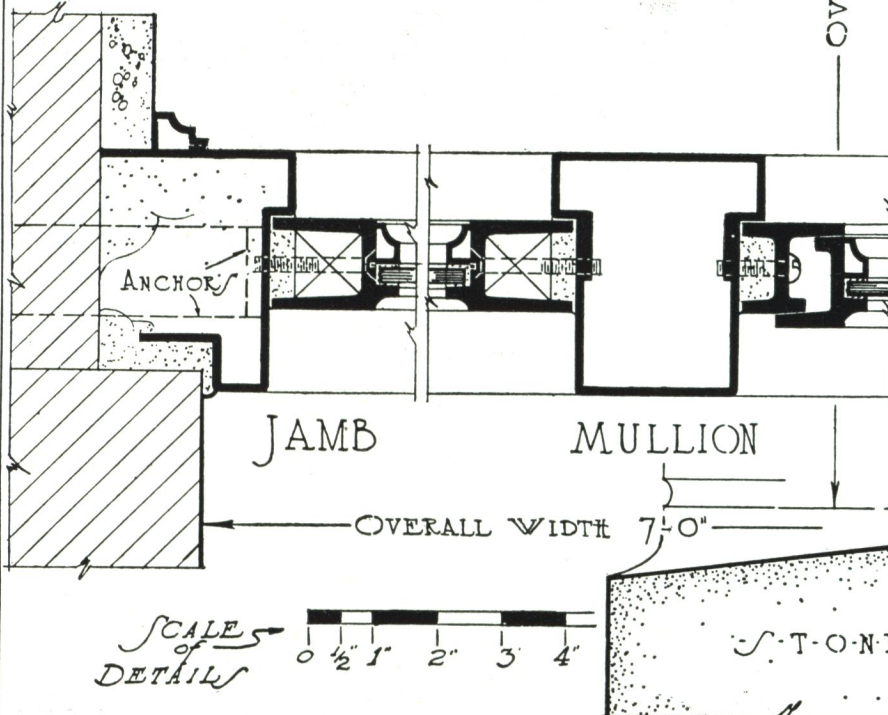
SCALE SECTION OF PROJECTED
UNIT SHOWING POSITION OF
LEVER ARMS, BRONZE CHANNELS,
ETC.. SECTION SHOWS SASH
PARTLY OPEN.

PLATE
NO. 10B-1

LEMCO PROJECTED TYPE SASH SET TO SUBFRAMES



SCALE DETAILS
FAR ROCKAWAY HIGH SCHOOL
NEW YORK CITY
WM H. GOMPERT ——— ARCHITECT



SCALE
of
DETAILS

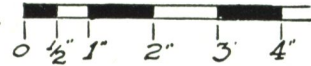
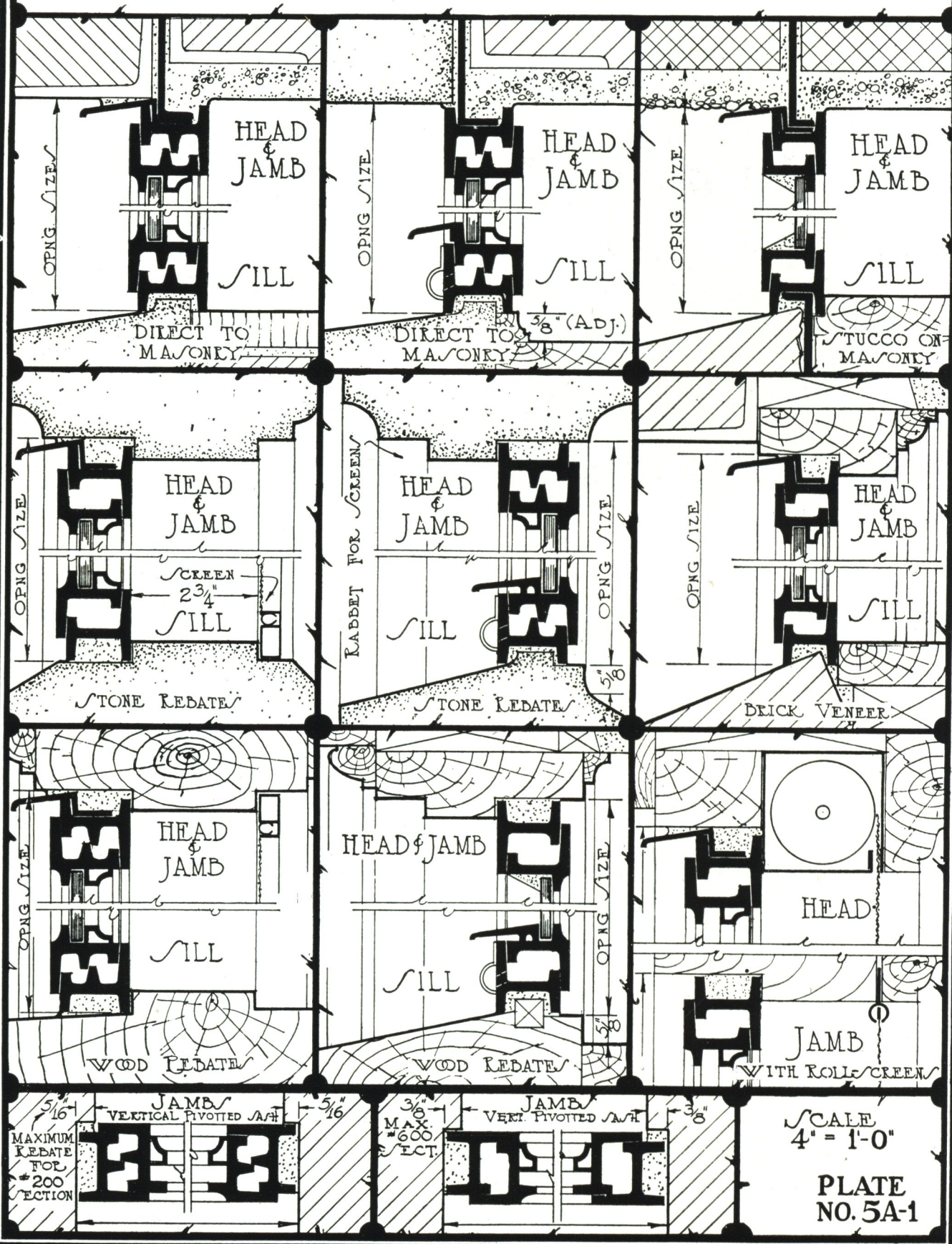
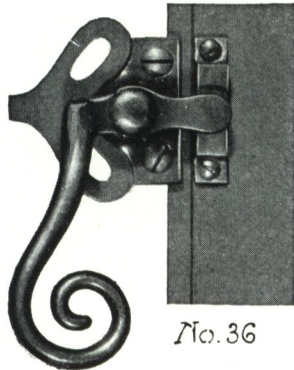


PLATE
NO. 10B-2

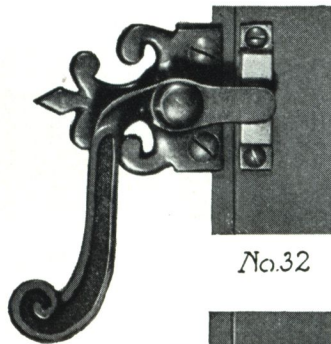
LEMCO INSTALLATION DETAILS FOR SPECIAL SASH



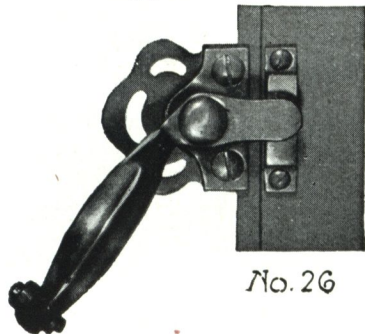
LEMCO SOLID BRONZE CASEMENT HARDWARE



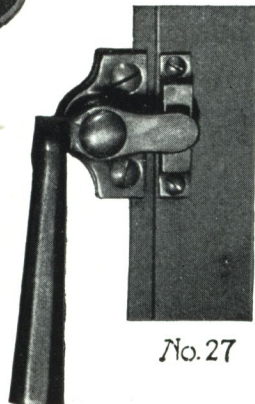
No. 36



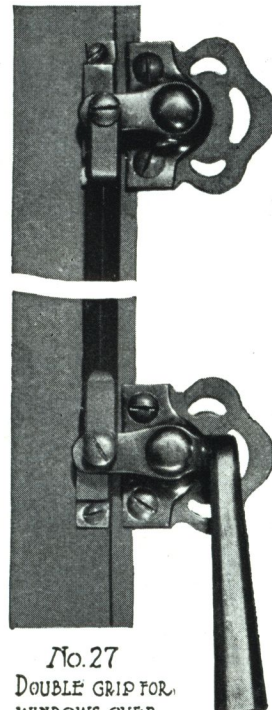
No. 32



No. 26

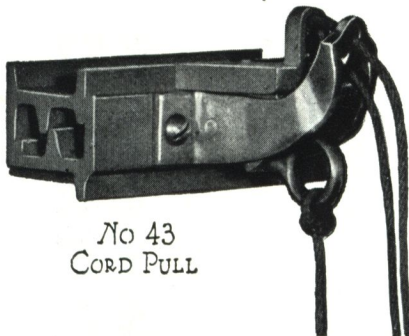


No. 27

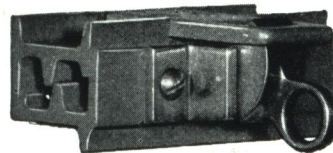


No. 27
DOUBLE GRIP FOR
WINDOWS OVER
60 IN.

FASTENERS TRANSOM CATCHES



No. 43
CORD PULL

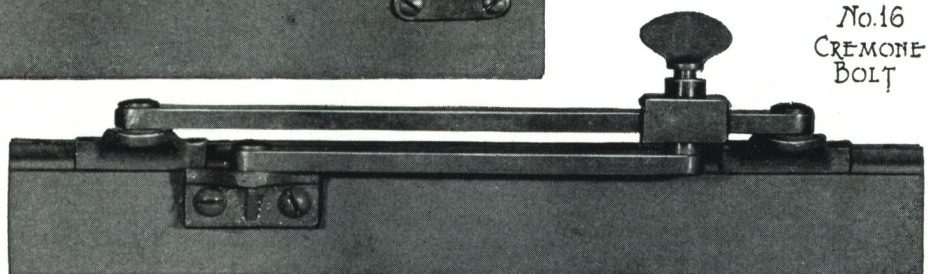


No. 41
POLE TYPE

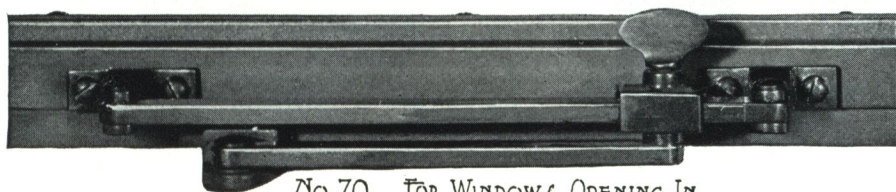
ADJUSTERS



No. 78
FOR DOORS



No. 16
CREMONA
BOLT

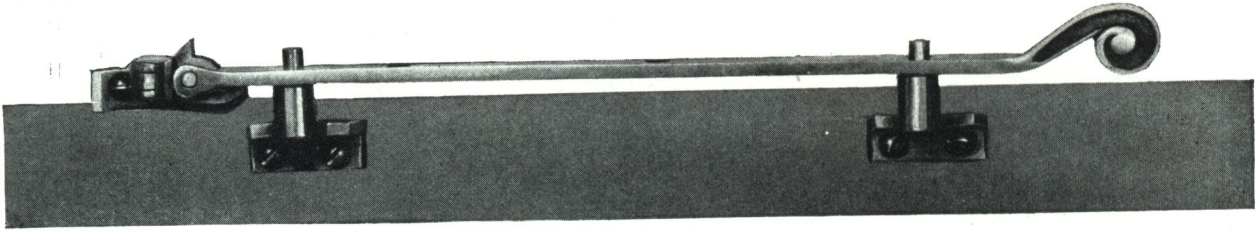


No. 70 FOR WINDOWS OPENING-IN

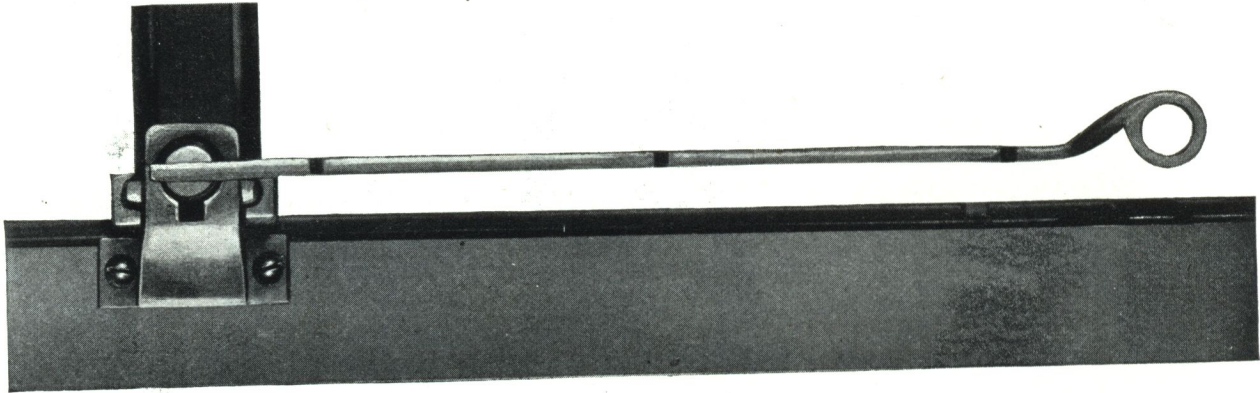
No. 70
FOR WINDOWS OPENING-OUT

PLATE
NO. 1H-1

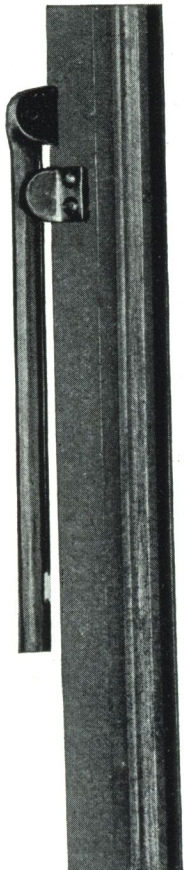
LEMCO SOLID BRONZE CASEMENT HARDWARE



No 77 PEG ADJUSTER



No 74 CAM ADJUSTER



No 111 SIDE ARM



No 26 FASTENER
INWARD OPENING
CASEMENT



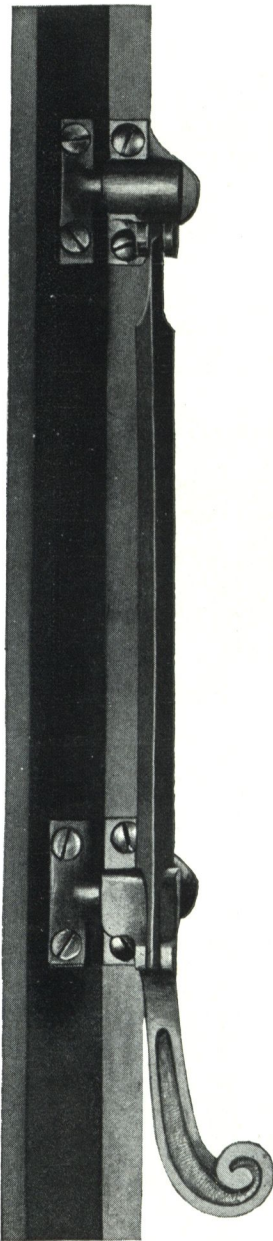
No 115 BUTT

No 83
CAM ADJUSTER

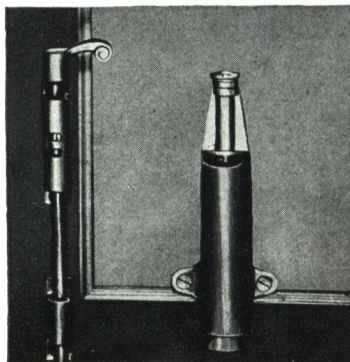


PLATE
No. 1H-2

LEMCO SOLID BRONZE CASEMENT HARDWARE

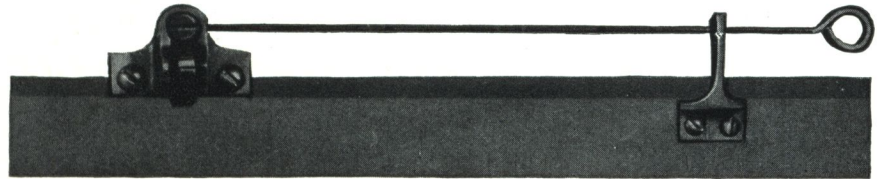


No 125 FASTENER
WITH DOUBLE GRIP

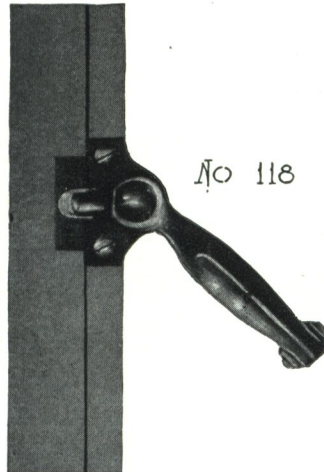


No 64
FOOT BOLT

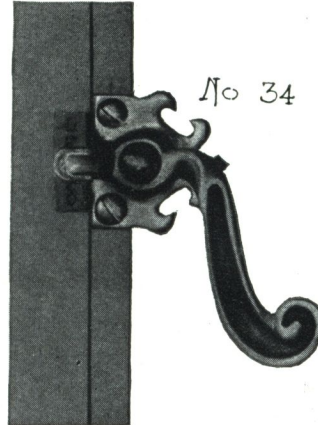
No 107
BOTTOM BOLT



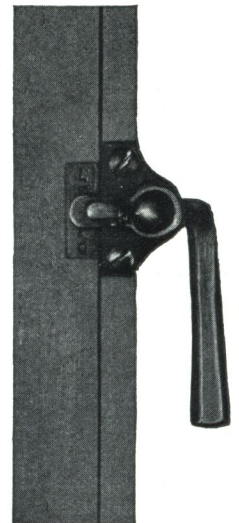
No 75 TRANSOM OPENER



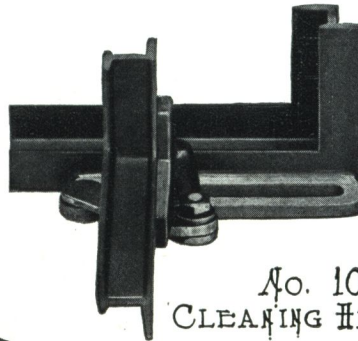
No 118



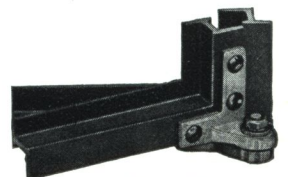
No 34



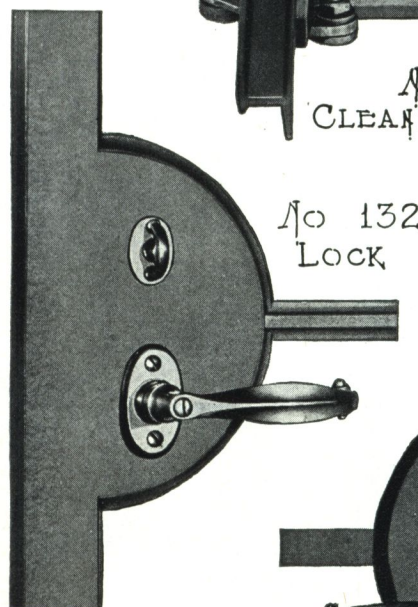
No 120



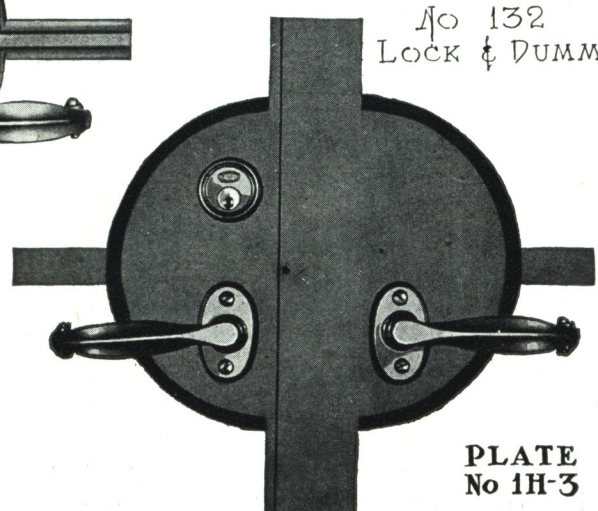
No. 10
CLEANING HINGE



No. 11
FRICTION PIVOT



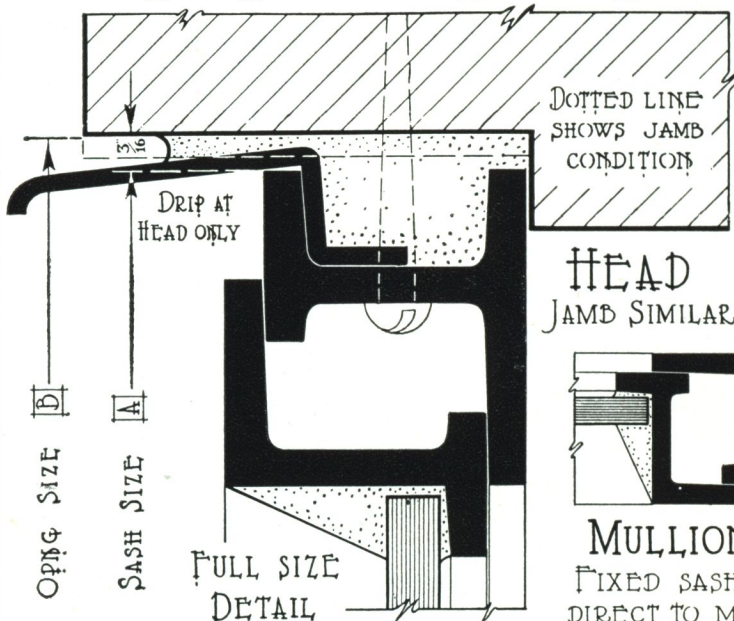
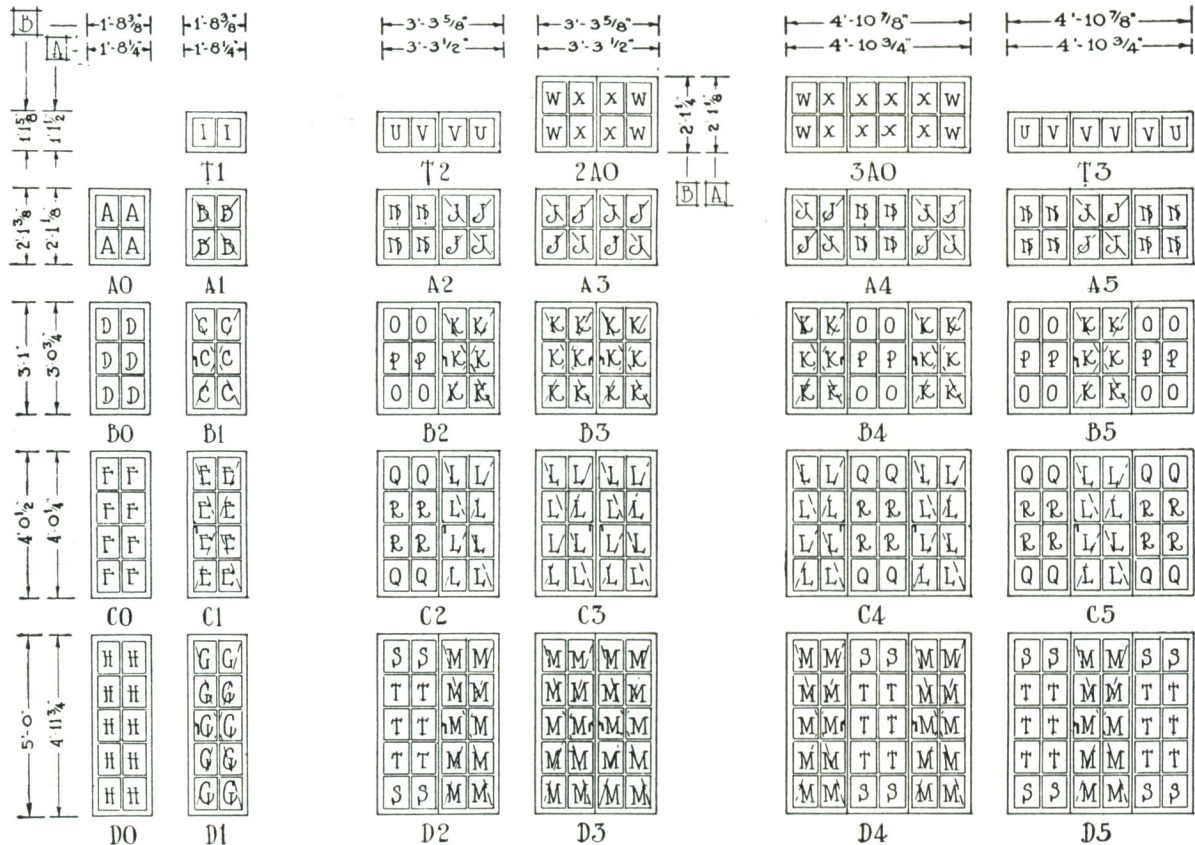
No 132
LOCK



No 132
LOCK & DUMMY

PLATE
No 1H-3

STANDARD LEMCO CASEMENTS

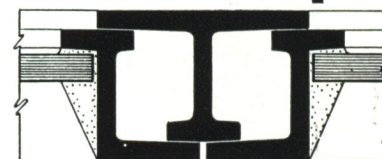


... GLASS SCHEDULE ...

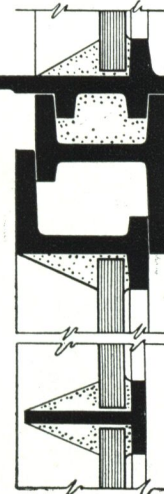
MAKE ALLOWANCE FOR FITTING - SIZES ARE NOT GUARANTEED

PANE	SIZE	PANE	SIZE	PANE	SIZE
A	8 1/2 x 10 5/16	I	8 1/2 x 11 3/4	O	9 3/16 x 11 7/8
B	8 7/16 x 10 7/8	J	8 7/16 x 10 7/8	R	9 3/16 x 11 7/8
C	8 7/16 x 11 1/16	K	8 7/16 x 11 1/16	S	9 3/16 x 11 5/16
D	8 1/2 x 11 1/16	L	8 7/16 x 11 1/8	T	9 3/16 x 11 3/16
E	8 7/16 x 11 1/8	M	8 7/16 x 11 3/16	U	8 1/2 x 11 3/4
F	8 1/2 x 11 1/8	N	9 3/16 x 11 5/8	V	9 3/16 x 11 3/4
G	8 7/16 x 11 3/16	O	9 3/16 x 11 5/16	W	8 1/2 x 10 5/16
H	8 1/2 x 11 3/16	P	9 3/16 x 11 1/16	X	9 3/16 x 10 15/16

HEAD
JAMB SIMILAR



MULLION (1/2 full size)
FIXED SASH ARE GLAZED
DIRECT TO MULLION BARS



TRANSOM SECTION
1/2 full size

MUNTIN
1/2 full size

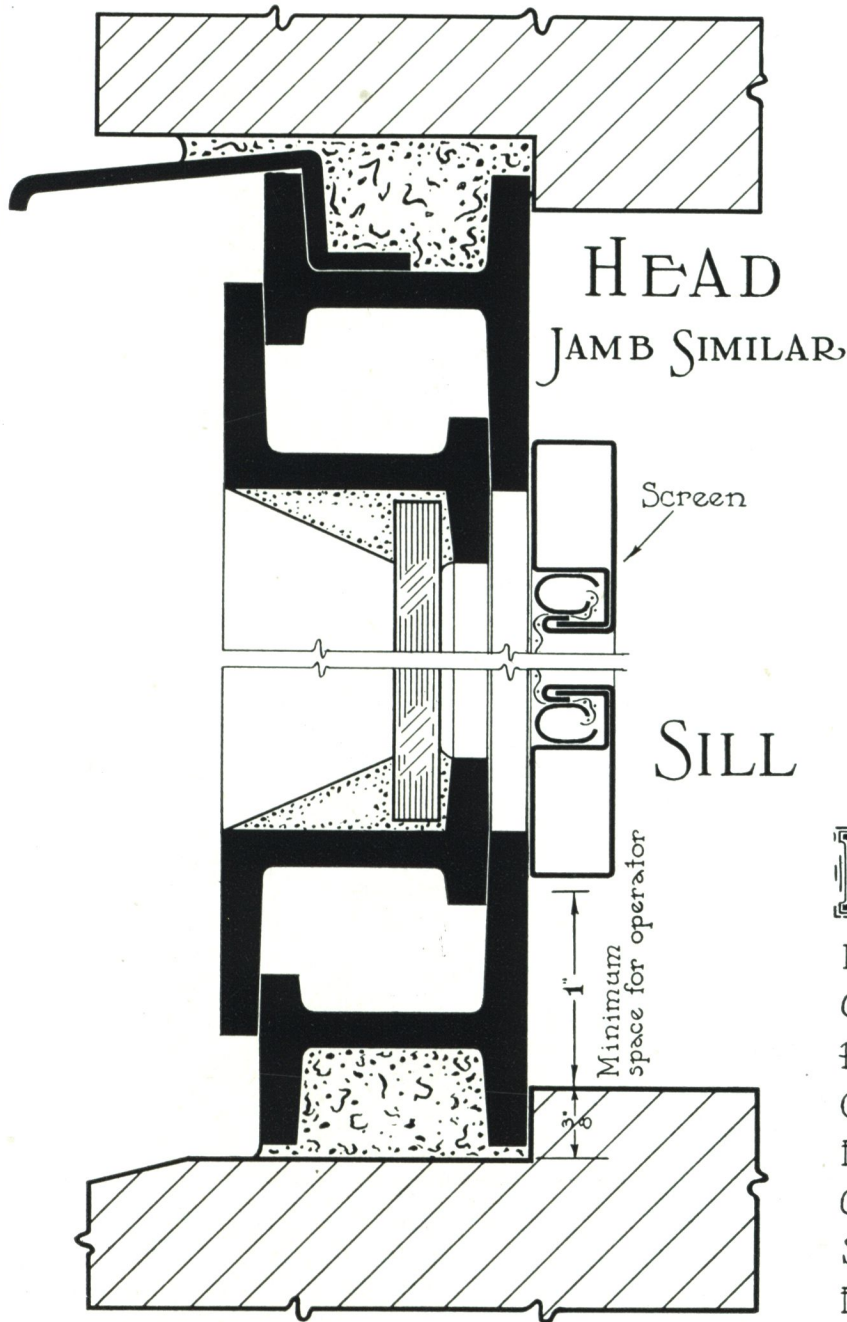
CASEMENTS ARE SIDE HINGED TO SWING OUT EXCEPT TYPE A WHICH ARE TOP HINGED TO PUSH OUT. THESE ARE MADE SIDE HINGED TO ORDER. ABOVE UNITS CAN BE CHANGED INTO VARIOUS COMBINATIONS; FOR EXAMPLE: T3 CAN BE PLACED OVER B4, C4 OR D4.

LUNDELL-ECKBERG MFG. CO., INC.

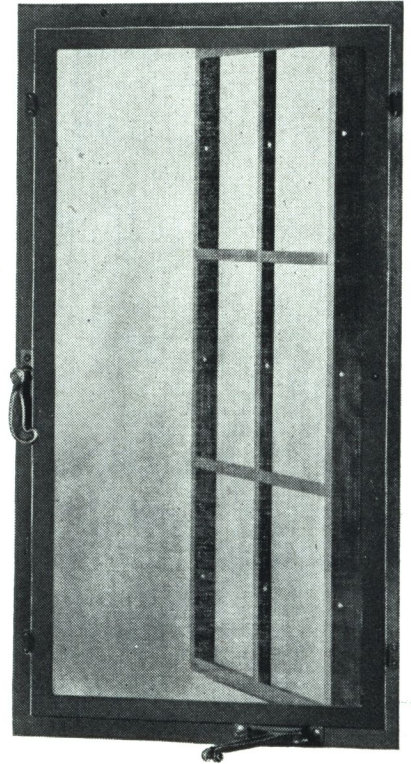
JAMESTOWN, NEW YORK.


MANUFACTURERS OF HIGH GRADE STANDARD
AND CUSTOM BUILT STEEL CASEMENTS AND
SOLID BRONZE CASEMENT HARDWARE. WRITE
FOR OUR COMPLETE CATALOG.

LEMCO - STANDARD - SCREENED - CASEMENTS



FULL SIZE DETAIL OF STANDARD SASH
SHOWING APPLICATION OF SCREEN AND
SILL CONDITIONS FOR OPERATORS ETC.

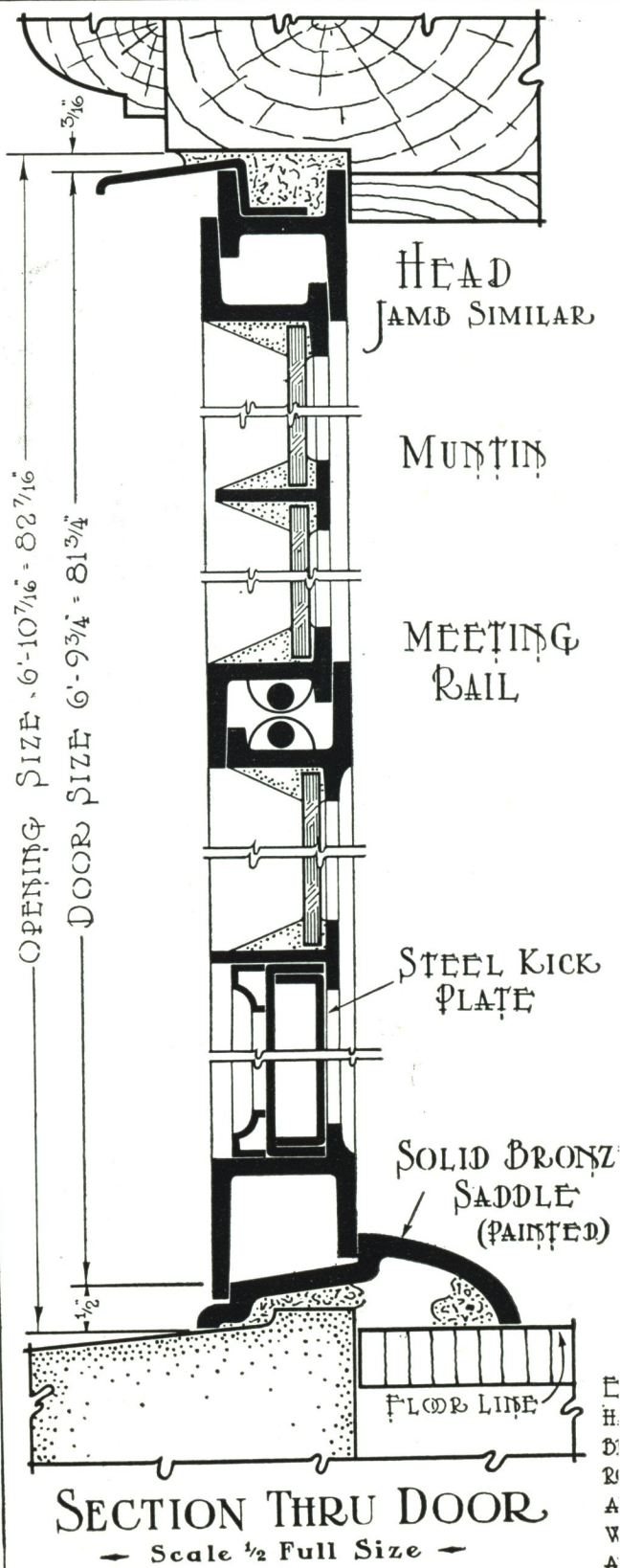


EACH UNIT OF THE NEW
SCREENED CASEMENTS
IS EQUIPPED WITH AN
OPERATOR DESIGNED TO
PERMIT EASY REMOVAL
OF SCREENS AND FOR
FACILITY IN WINDOW
OPERATION. SEPARATE
SCREEN IS FURNISHED
FOR EACH UNIT. THESE
SASH ARE FURNISHED IN
STANDARD & SPECIAL
SIZES. 

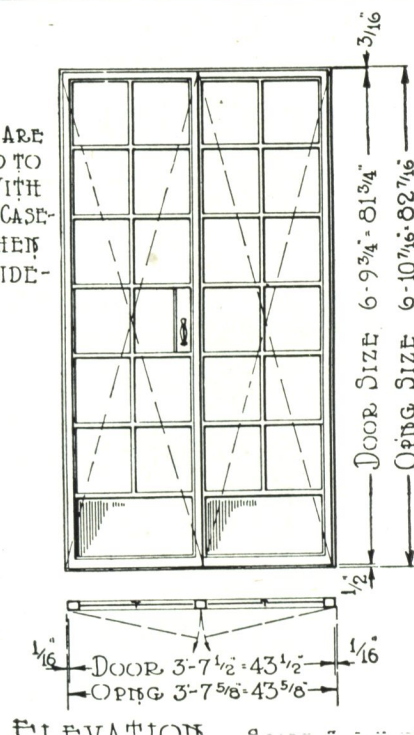
STANDARD

LEMCO

DOORS



NOTE
MUNTINS ARE
ARRANGED TO
LINE UP WITH
STANDARD CASE-
MENTS WHEN
USED AS SIDE-
LIGHTS.



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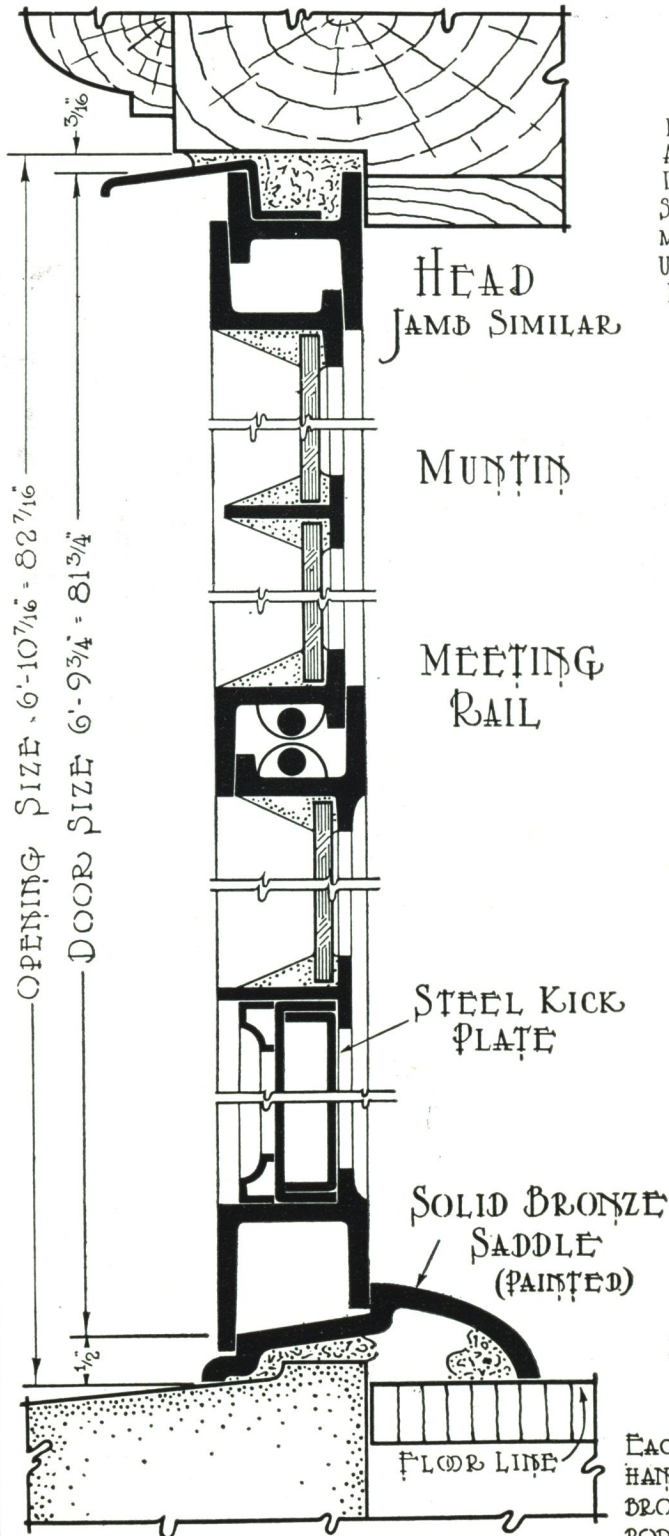
<https://archive.org/details/buildingtechnologyheritagelibrary>

From the collection of:
Robert Vail Cole Jr, AIA
1962 – 2011

STANDARD

LEMCO

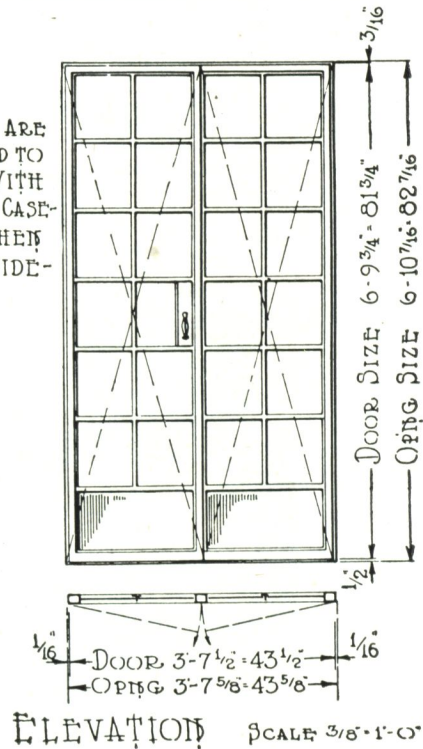
DOORS



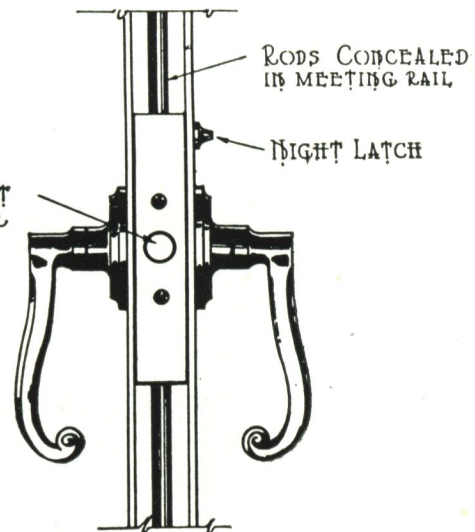
SECTION THRU DOOR

— Scale 1/2 Full Size —

NOTE
MUNTINS ARE
ARRANGED TO
LINE UP WITH
STANDARD CASE-
MENTS WHEN
USED AS SIDE-
LIGHTS.



LOCK BOLT
AT CENTER
OF DOOR



DETAIL OF ACTIVE LEAF OF MEETING
RAIL SHOWING CONCEALED LOCK RODS

• HARDWARE •

EACH LEAF HUNG ON THREE 3" BRONZE BUTTS. RIGHT HAND LEAF FITTED WITH ALUMINUM LOCK BOX AND BRONZE LEVER HANDLES OPERATING CONCEALED RODS THAT LOCK DOORS AT HEAD AND SILL. DOORS ALSO LOCK AT CENTER. LEFT HAND LEAF FITTED WITH CONCEALED TOP AND BOTTOM BOLTS. FRICTION ADJUSTERS APPLIED TO HEAD OF EACH LEAF.